

Z/009/60/000/011/001/001
E112/E153

Analytical Control of Isoprene Rectification

Two types of isoprene from different sources were investigated:
1) Soviet material, with 96% isoprene content, and 2) Czechoslovak material, prepared from isobutylene and formaldehyde, with 13% isoprene. The different distillation fractions were analysed by mass spectrography, infrared spectroscopy and gas chromatography, using thermoconductivity cells for detection. A chromatogram of sample B (Czechoslovak), e.g. first sample of condensate from still-head is shown (Fig.1), revealing 8 peaks and identified as follows: 1) isobutylene, not isolated in pure state but found in one fraction in an amount of 15% together with 85% 3-methylbutene-1; 2) and 3), peaks appertaining to butene-1 and butene-2 (confirmation of structure through mass spectrography); 4) 3-methylbutene-1 (this compound was isolated from one fraction in 99.5 purity and identified spectroscopically by comparison with data in the literature; 5) 2-methylbutene-1 (this compound was identified by comparison with literature data. It was obtained by fractional distillation in approximately 80% purity. It was also obtained by preparative

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gas chromatography, and both samples proved identical);
6) isoprene: standard prepared by fractional distillation in
99.98% purity and by preparative chromatographic method (ethyl
cyclopentanecarboxylate as stationary phase); 7) 2-methylbutene-2
prepared by fractional distillation in 98% purity (identified by
method used for 3-methylbutene-1; compound prepared for
identification purpose also by preparative gas chromatography).
Chromatogram of sample A (Soviet isoprene) revealed similar
characteristics. A special peak (4b) was noticed, the identity
of which was not yet determined. Results of practical
distillation tests were as follows. Sample A was distilled over
a low-efficiency column with reflux ratio 13:1. Pentene
contents were reduced from 4 to 1.2%, and isoprene of 98.8% purity
and in yields of 80% was collected. Using a more efficient column
with reflux ratio 40:1 equilibrium was established after 2 hours
and isoprene of 99.98% purity was obtained in poor yields.
Attempts to improve yields by the addition of azeotropic agents
(methanol, water) failed. Distillation of sample B was undertaken
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over a column with reflux ratio 4:1. The concentration of isoprene in the middle fraction was doubled and the distillate contained only four components: 3-methylbutene-1; 2-methylbutene-1; isoprene; 2-methylbutene-2. A further fractionation over a column with reflux ratio 25:1 yielded further fraction, from which only those containing 2-methylbutene-1, isoprene and 2-methylbutene-2 were collected. Distillation of the three combined fractions over a column with reflux ratio 40:1 gave a two-component mixture in which the pentene concentration amounted to only 13%. By azeotropic distillation with acetone, conversion into high-grade isoprene could be achieved. It is claimed that yields were satisfactory. Acknowledgements are made to Doctor J. Pech, director, VÚSK Gottwaldov for useful advice and for supplying some of the raw materials.

There are 6 figures, 4 tables and 16 references (including several patents to one reference): 11 English, 4 Czech and 1 Soviet.

ASSOCIATION: Ústav fyzikální chemie ČSAV, Praha (Institute for
Card 476 Physical Chemistry, ČSAV Prague)

SUBMITTED: June 6, 1960

S/081/62/000/024/033/073
B144/B186

AUTHORS: Poláček, J., Matyska, B.

TITLE: Chromatographic fractionation of polychloroprene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 259-260,
abstract 24D268 (Collect. Czechosl. Communs, v. 27, no. 4,
1962, 816 - 822 [Ger.; summary in Russ.])

TEXT: It was established that polymers can be separated chromatographically into fractions having similar molecular weight even on adsorbents such as powdered glass and NaCl. The chromatography was performed at 19 - 23°C in columns (44.0·2.8 or 58.0·2.8 cm) filled with powdered glass having a granulation of 0.01 or 0.02 cm or with NaCl powder of <0.02 granulation, using C₆H₆ as eluant and a sample volume of 0.3 - 0.5 g polychloroprene in the form of a 5 - 7% solution. The adsorbent was heated preliminarily for 4 - 6 hrs at 200 - 250°C, fed still hot into the column filled with N₂, blown through with N₂, 10 times, and then impreg-

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Chromatographic fractionation ...

nated with the eluant. The quantity of polychloroprene in the eluate was determined by evaporating the individual fractions to dryness and weighing the residue. A good polymer separation is obtained only on adsorbents with a large surface (granulation ~ 0.01 cm) at an eluation rate of ≤ 0.25 ml/min. When NaCl is used as adsorbent, the polymer bound to it irreversibly can be separated by dissolving the NaCl in water. The chloroprene-distribution-versus-molecular-weight curves obtained by chromatography showed good agreement with those from precipitation (RZhKhim, 1962, 4P385), but the chromatographic separation of the extreme low-molecular and high-molecular fractions of the polymer is insufficient. The apparatus is indicated in a diagram. [Abstracter's note: Complete translation.]

Card 2/2

CZECHOSLOVAKIA

DVORAK, J; MATYSKA, B.

1. Department of Physical Chemistry of Charles University,
Prague; 2. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague

Prague, Collection of Czechoslovak Chemical Communications,
No 9, 1963, pp 2387-2391

"Thermal Destruction of Polychloroprene."

DUSKOVA, L.; GRUBNER, O.; HANUS, V.; KOSSLER, I.; MATYSKA, B.

Selection of extraction agents for isoprene rectification. Chem
prum 13 no.10:513-516 0 '63.

1. Ustav fyzikalni chemie, Ceskoslovenska akademie ved, Praha.

MATYSKA, B.; DUSKOVA, L.

Chromatographic examination of the properties of the ternary system, isoprene-trimethylene-polar solvent. Coll Cz Chem 28 no.11:3019-3029 N°63.

1. Institut fur physikalische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1-5110-66 ACC NR: AP6000250 | SOURCE CODE: CZ/0008/65/059/002/0230/0222 <i>3M</i> |
| AUTHOR: Mach, Karel; Matyska, Bohumir. | |
| ORG: Institute for Physical Chemistry, CSAV, Prague (Ustav fysikalni chemie CSAV) | |
| TITLE: Simple device for the measurements of infrared spectra and for filling cells in an inert atmosphere | <i>QM</i> |
| SOURCE: Chemicke listy, v. 59, no. 2, 1965, 230-232 | |
| TOPIC TAGS: chemical laboratory apparatus, IR spectrum, organometallic compound, argon, nitrogen | |
| ABSTRACT: The authors describe an apparatus of their design suitable for handling organo-metallic compounds in an atmosphere of dry argon or nitrogen. The apparatus is described in detail, and operating instructions discussed. The authors thank J. Sank for technical assistance and for valuable comments. Orig. art. has: 2 figures. [JPRS] | |
| SUB CODE: GC / SUBM DATE: 11Jul64 / ORIG REF: 003 / OTH REF: 001 | |
| <i>SS</i> Conf. 1/1 | |

CZECHOSLOVAKIA

MATYŠKA, B.; SVESTKA, M.; MACH, K.

Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague
(for all)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb
1966, pp 659-673

"Interaction in the polymerization system isoprene-solvent-aluminum
bromide."

MATYSKA, S.

Results of carelessness in the work of a control commission. p. 29.
(ROLNICKE HLASY, Vol. 10, No. 7, July 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957, Incl.

MATYSEK, S.

Buildings constructed to the purpose will save work and thus will lower production cost. p.22 (Rolnicke Hlasy Vol. 11, no. 4, Apr. 1957 Praha)

SO: Monthly List of East European Accession (EEAL) IC, Vol. 6, no. 7, July 1957. Incl.

26-2421

S/166/62/000/002/003/008
B112/B104

AUTHORS: Starodubtsev, S. V., Niyazova, O. R., Matyskin, V. I.,
Kiv, A. Ye.

TITLE: Alpha-counter characteristics of cadmium sulfide single
crystals

PERIODICAL: Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya
fiziko-matematicheskikh nauk, no. 2, 1962, 42-45

✓B

TEXT: An alpha probe was used to examine the amplitude of alpha pulses
in CdS crystals as a function of the applied voltage. The X-ray conductivity
and the counting rate were determined by means of probes. The maxima of
the X-ray conductivity and of the counting rate have been found to
coincide. It is concluded that the distribution of charge carriers in
the crystal during pulse formation resembles that which occurs under local
X-radiation in the steady state. An analysis of counter characteristics
shows that the pulse maxima for n-type and p-type semiconductors are near
the cathode and the anode, respectively. There are 4 figures.

ASSOCIATION: AN UzSSR (AS UzSSR)

Card 1/2

Alpha-counter characteristics of ...

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B112/B104

✓B

SUBMITTED: September 20, 1961

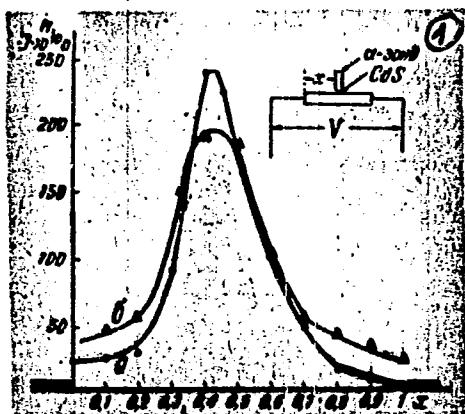


Fig. 3. Characteristics.
Legend: (a) counting rate;
(b) X-ray conductivity; (1) α probe.

Card 2/2

MATYSKOVA, Carmen, promovana fyzicka

Quantitative interpretation of ore well logs. Geol pruzkum 5 no.3:
81-84 Mr '63.

JIRSA, Evzen; MATYSKOVA, Carmen; VLACH, Miro

Approximation of a graphically given function by an automatic computer. Aplikace mat. 8 no.4:302-313 '63.

1. Vyzkumný ústav pro výrobní techniku A.S.Popova, Praha 4-Braník, Novogrodska ul.

CZECHOSLOVAKIA

SKALA, E., MD, Lt Col, and MATYSKOVA, L.; Central Military Hospital, Prague.

"Our Results Using the Benjamin Method of Total Leukocyte Counting."

Prague, Vojenske zdravotnicke listy, Vol 32, No 1, Mar 63; pp 40-41.

Abstract [English summary modified]: Generally favorable comments about the method proposed by Benjamin (Blood 13:877, 1958) for rapid WBC counting. Main problem seems to be in training subprofessional help to use method. One photomicrograph.

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- 10 -

MATSYAK, V.G.

Redistribution of certain morphological elements of blood
as a protective reaction of the system in acute blood loss.
Akush. i gin. 33 no.5:99-103 S-0 '57. (MIRA 12:5)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. M.A.
Petrov-Maslakov) Leningradskogo sanitarno-gigienicheskogo
meditsinskogo instituta.

(HEMORRHAGE, physiol.

redistribution of morphological elements of
blood as protective reaction)

(BLOOD PLATELETS

same)

MATSYAK, V.G.
MATSYAK, V.G.

Dynamics of hematological factors during acute blood loss under experimental conditions [with summary in English]. Biul.eksp.biol. i med. 43 no.6:27-29 Je '57. (MIRA 10:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. M.A.Petrov-Meslakov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Predstavlena deystvitel'nym chленом AMN SSSR prof. M.D. Tushinskim.

(HEMORRHAGE, experimental,
eff. on hemoglobin level (Rus))
(HEMOGLOBIN,
eff. of hemorrh. in animals (Rus))

MATSYAK, V.G. Cand Med Sci -- (diss) " Redistribution of ^{certain} some
~~of the morphological elements of~~ the blood as a defense reaction
of the organism in ^{acute hemorrhage} massive blood loss." Len, 1958. 15² pp.
(Min Health RSFSR. Len Sanitary-Hygienic Med Inst). ²⁰⁰ 800 copies.
(KL, 8-58, 108)

-67-

PETROV-MASLAKOV, M.A., prof.; MATSYAK, V.G.

Role of the Rh incompatibility of the blood of the mother and fetus
in stillbirth and mortality of newborn infants. Vop. okh.mat. i det.
5 no.1:54-58 Ja-F '60. (MIRA 13:5)

1. Iz kafedry akusherstva i ginekologii Leningradskogo sanitarno-
gigiyenicheskogo meditsinskogo instituta (zav. - prof. M.A. Petrov-
Maslakov).
(RH FACTOR) (INFANTS (NEWBORN)--MORTALITY)

VOLPYAN, N.L.; MATYSYAK, V.G.

Late results in the conservative treatment of suppurative mastitis.
Vop. okh. mat. i det. 6 no.4:54-58 Ap '61. (MIRA 14:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. M.A.Petrov-Maslakov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(BREAST--DISEASES)

MATSYAK, V.G.; RAZUMOVSKAYA, Z.I.

Birth injuries of newborn infants and their effect on their development. Akush. i gin. 39 no.4:106-110 Jl-Ag'63
(MIRA 16:12)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. M.A. Petrov-Maslakov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta i rodil'nogo doma imeni V.F.Snegireva (glavnnyy vrach A.A. Dodor).

38591

S/081/62/000/010/074/085
B166/B144

15.631✓

AUTHORS: Lausch, Adam, Sulima, Tadeusz, Wajda, Helena, Rodziński,
Władysław, Matysziewicz, Stanisław, Nikodem, Jan, Okrasa,
Jerzy

TITLE: A method of producing varnish for impregnating fabric in the
production of electrical insulating panels

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 635, abstract
10P239 (Polish Patent 44508, June 7, 1961)

TEXT: The varnish for impregnating fabric to be used for electrical
insulating panels is obtained by mixing a solution of epoxy resin in
acetone along with an amine curing agent and a solution of phenolic resin,
without free phenol, in C₂H₅OH with added urotropine. The special feature
of this method is the use of a phenolic resin with the free phenol removed
by toluene extraction. Electrical insulating panels made with the
aforesaid varnish show high mechanical strength and heat resistance up to
180°C. Example. A solution is prepared with 51.5 parts by weight epoxy

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A method of producing varnish ...

resin and 2.5 parts by weight amine in 46 acetone. To prepare the phenol-free resin 55 parts by weight phenol and 45 parts by weight 40% CH_2O with HCl (specific gravity 1.1), added at the rate of 1 ml per 1 kg of phenol, are heated at 95-100°C and at normal pressure for 40 min. When condensation is complete the resin is distilled in vacuo (residual pressure 200 mm Hg). The dehydrated resin is treated with toluene in a ratio of 1 : 1, after which the remaining toluene is distilled off in vacuo (residual pressure 200 mm Hg). A solution is prepared from 48 parts by weight phenol-free resin and 4 parts by weight urotropine in 48 parts by weight $\text{C}_2\text{H}_5\text{OH}$. The varnish is obtained by mixing 95% of the epoxy resin solution and 5% of the phenolic resin solution. Glass fabric is steeped in the varnish and is impregnated so as to contain 30-40% resin after drying. [Abstracter's note: Complete translation.]

Y

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MACHON, Jozef, inz; GEBICKI, Zbigniew, mgr., inz.; CYRYLOWSKI, Jerzy, inz.;
MATYSZCZAK, Stanislaw; KALUZNY, Jan; SKALSKI, Jan; PROBA, Leon;
SYRUNOWICZ, Wieslaw, inz.; LUBRYCHT, Czeslaw, mech.

Works distinguished and rewarded in the 5th General Polish Competition
in the field of saving electric power. Energetyka przem 10 no.4:146-
148 Ap '62.

1. Zaklady Azotowe im. P. Findera, Chorzow (for Machon).
2. Przemysl Weglowy, Gliwice (for Gebicki). 3. Fabryka Sprzetu
Elektrotechnicznego, Szczecin (for Cyrylowski and Matyszczak).

MATYTSIN, A.N. (Leningrad, K-156, prospekt Engel'sa, 28, kv.98)

Surgical significance of the topography of prescalene lymph
nodes. Vop. onk. 9 no.9:49-57 '63. (MIRA 17:9)

1. Iz 2-go khirurgicheskogo otdeleniya (zav.-chlen-korrespondent
AMN SSSR prof. A.I. Rakov) Instituta onkologii AMN SSSR (dir.-
deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov) i kafedry
normal'noy anatomii (zav.- zasluzhennyy deyatel' nauki prof.
M.G. Prives) 1-go Leningradskogo meditsinskogo instituta imeni
akademika I.P. Pavlova (rektor - dotsent A.I. Ivanov).

MATYTSIN, G. P.

Subject : USSR/Engineering AID P - 695
Card 1/1 Pub. 29 - 6/18
Authors : Tsil'man, I. V., Eng. and Matytsin, G. P., Eng.
Title : Installation for the preparation of anthracite crumb
Periodical : Energetik, 8, 15-16, Ag 1954
Abstract : The authors describe an installation of a mill for obtaining anthracite grains of 1-2.5 mm size needed for feed-water treatment. One diagram.
Institution : None
Submitted : No date

MATYTSIN, N.

FREMKIN', S.; MATYTSIN, N.

Incorrect calculations. Mias. Ind. SSSR. 25 no.3:21-22 '54. (MIRA 7:7)

1. Moskovskiy myasokombinat.
(Sausages)

LAVROVA, L.P., kand.tekhn.nauk; VOLOVINSKAYA, V.P.; KRAVCHENKO, N.D.,
starshiy nauchnyy sotrudnik; LEVINA, I.L.I., starshiy nauchnyy
sotrudnik; CHIRYATNIK, V.I., starshiy nauchnyy sotrudnik;
KONAREVSKIY, A.A., starshiy nauchnyy sotrudnik; KRYLOVA, V.V.;
mladshiy nauchnyy sotrudnik; TELEPNEVA, V.P., mladshiy nauchnyy
sotrudnik; MATYTSIN, N.N., inzh.; MALYUTIN, P.I., inzh.

Developing a continuous mechanized preparation of sausage meat
used in the production of cooked sausages. Trudy VNIIMP no.9:
13-39 '59. (MIRA 13:8)

1. Moskovskiy myasokombinat (for Matytsin and Malyutin).
(Sausages)

MATYTSIN, N.; SKOTNIKOVA, O.; CHICHERINA, A.; LEVINA, L.

Bonus system for hourly workers in the sausage industry.
Mias. ind. SSSR 31 no.4:43-46 "60. (MIRA 14:7)

1. Moskovskiy myasokombinat (for Matytsin, Skotnikova,
Chicherina). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut
myasnoy promyshlennosti (for Levina).
(Moscow—Meat industry)
(Bonus system)

BOL'SHAKOV, A.; MIZERETSKIY, N.; BELOUSOV, A.; MATYTSIN, N.

Production and regeneration of brines. Mias.ind.SSSR 32 no.2:
15-17 '61. (MIRA 14:7)
(Brines)

LYSENKO, P.; SHEMYAKIN, I.; GLAZKOV, P.; SOSNIN, A.; MATYTSIN, P.

Remarkable school of management. Mast. ugl. 7 no. 7:3-8 Jl '58.
(MIRA 11:8)

1. Predsedatel' postoyanno deystvuyushchego proizvodstvennogo soveshchaniya shakhty imeni Kalinina tresta Prokop'yevskugol' (for Lysenko).
2. Predsedatel' shakhtnogo komiteta shakhty imeni Kalinina tresta Prokop'yevskugol' (for Shemyakin).
3. Predsedatel' postoyanno deystvuyushchego proizvodstvennogo soveshchaniya shakhty "Koksovaya-1" imeni Stalina tresta Stalinugol' (for Glazkov).
4. Predsedatel' postoyanno deystvuyushchego proizvodstvennogo soveshchaniya shakhty No. 4-5 tresta Prokop'yevskugol' (for Sosnin).
5. Sekreter' gorkoms profsoyuza rabochikh ugel'noy promyshlennosti g. Stalina (for Matytsin).

(Mine management)
(Coal mines and management)

NATYTSIN, V.D. (Moskva); RYAPOLOV, V.A. (Moskva)

Using the quadratic integral criterion for the determination of
optimum parameters for an automatic pilot equipped with rate
feedback [with summary in English]. Avtom. i telem. 20 no.4:
415-421 Ap '59. (MIRA 12:5)
(Automatic pilot (Airplanes))

13.2000

AUTHOR: Matytsin, V. D. (Moscow)

TITLE: Determination of the Control of an Aircraft for the Purpose
of Obtaining an Optimum Flight Route Under Conditions of
Variable Wind

PERIODICAL: Avtomatika i telemekhanika, 1961, Vol. 22, No. 1, pp. 57-66

TEXT: The problem for the determination of the shortest flight route of
an aircraft between two given points in space under conditions of wind
variable in time and space is studied. By means of the calculus of
variations, optimum flight routes are sought for a certain aircraft in
order to warrant accurate data on the maximum range or a minimum amount
of fuel required on a given flight route. Using a method suggested by
S. B. Pusrin (Ref.3), the following system of equations

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Determination of the Control of an Aircraft
for the Purpose of Obtaining an Optimum .
Flight Route Under Conditions of Variable Wind

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$$V_a = V_r + W_x \cos \varphi_r - W_z \sin \varphi_r$$

$$mV_a \left(\frac{d\varphi_r}{dt} - \frac{d\beta_s}{dt} \right) = (-P + Z_r^{\beta_r}) \beta_r + (-P + Q_r) \beta_s$$

$$\delta = -\frac{m_y^{\beta_r}}{m_y} \beta_r, \quad \beta_s = \frac{W_x \sin \varphi_r + W_z \cos \varphi_r}{V_a}$$

$$\dot{x} = W_x + V_r \cos \varphi_r, \quad \dot{z} = W_z - V_r \sin \varphi_r, \quad \psi = \varphi_r + \beta_r. \quad (10)$$

is set up. Here, V_a is the absolute speed of the aircraft, V_r the aircraft speed with respect to air, W_x and W_z the components of wind velocity, φ_r the angle of wind direction, P - engine thrust, $Z_r^{\beta_r}$ - lateral force, Q_r - head resistance (drag), β_r - relative angle of sideslip, β_s - absolute angle of sideslip, β_B - additional angle of sideslip caused by wind. These differential equations are a coupled system and are solved in two stages because of their complex nature. I. M. Gyunter (Ref.4) solved a similar problem under the assumption that the wind vector changes

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Determination of the Control of an Aircraft
for the Purpose of Obtaining an Optimum Flight Route Under Conditions of Variable Wind

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little during the flight and that V_r is constant. By means of a voluminous calculation the author obtains the differential equation

$$\frac{d\varphi_r}{dt} + \left(\frac{\partial W_z}{\partial z} - \frac{\partial W_x}{\partial x} \right) \sin \varphi_r \cos \varphi_r + \frac{\partial W_z}{\partial x} \sin^3 \varphi_r - \frac{\partial W_x}{\partial z} \cos^3 \varphi_r = 0. \quad (27)$$

describing the change in the wind vector on the optimum flight route. Furthermore, the following relation is obtained by voluminous calculation from (10) and (27) for the operation of a side rudder

$$\delta = \frac{m_y^{\beta_r} - P + Q_r}{m_y^b - P + Z_r^{\beta_r}} \frac{W_z \sin \varphi_r + W_x \cos \varphi_r}{V_a} +$$

$$+ \frac{m_y^{\beta_r}}{m_y^b (-P + Z_r^{\beta_r}) V_a} \left\{ \frac{\partial W_z}{\partial t} (W_x + V_r \cos \varphi_r) - \frac{\partial W_x}{\partial t} (W_z - V_r \sin \varphi_r) + \right.$$

$$+ \left(\frac{\partial W_z}{\partial z} - \frac{\partial W_x}{\partial x} \right) (W_x W_z + W_z V_r \cos^3 \varphi_r - V_r W_x \sin^3 \varphi_r) - \quad (31)$$

$$- \frac{\partial W_x}{\partial z} (V_r^2 + W_z^2 + V_r W_x \cos^3 \varphi_r + V_r W_z \sin^3 \varphi_r - 3V_r W_x \sin \varphi_r) +$$

$$\left. + \frac{\partial W_z}{\partial x} (V_r^2 + W_z^2 - V_r W_x \sin^3 \varphi_r - V_r W_z \cos^3 \varphi_r + 3V_r W_x \cos \varphi_r) \right\},$$

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Determination of the Control of an Aircraft S/003/61/022/001/006/012
 for the Purpose of Obtaining an Optimum B019/B056
 Flight Route Under Conditions of Variable Wind

where φ_r and V_a satisfy the condition

$$\dot{\varphi}_r = \left(\frac{\partial W_x}{\partial x} - \frac{\partial W_z}{\partial z} \right) \sin \varphi_r \cos \varphi_r + \frac{\partial W_x}{\partial x} \cos^2 \varphi_r - \frac{\partial W_z}{\partial x} \sin^2 \varphi_r, \quad (32)$$

$$V_a = V_r + W_x \cos \varphi_r - W_z \sin \varphi_r.$$

The optimum trajectory is determined from the equations

$$\dot{x} = W_x + V_r \cos \varphi_r, \quad \dot{z} = W_z - V_r \sin \varphi_r. \quad (33)$$

M. A. Lavrent'yev and L. A. Lyusternik are mentioned. There are 1 figure and 6 Soviet references.

SUBMITTED: April 20, 1960

Card 4/4

Matytsin, V.D.

AID Nr. 966-3 14 May

**ANALYTICAL METHOD OF DETERMINING OPTIMAL PARAMETERS OF
STATIC AND ASTATIC AUTOPILOTS (USSR)**

Matytsin, V. D. Avtomatika i telemekhanika, no. 4, Apr 1963, 455-464.
S/103/63/024/004/003/014

The aerodynamic and inertia-weight characteristics of modern aircraft vary within wide limits. For aircraft flying at altitudes from 0 to 17,000 m at speeds of 270 to 1400 km/hr, the rudder control effectiveness changes by approximately 25 times. For such flight conditions it is difficult, even with the use of modeling installations, to determine rapidly the autopilot transfer numbers by present methods. The analytical method discussed makes it possible to provide a high degree of stabilization of a moving aircraft relative to its centroid. For determining the optimum values of transfer numbers of static and astatic autopilots for different aircraft control-system parameters and flight conditions, four tuning equations for static autopilots

Card 1/2

AID Nr. 966-3 14 May

ANALYTICAL METHOD [Cont'd]

S/103/63/024/004/003/014

and three for astatic autopilots are recommended. The method for preliminary selection of autopilot transfer numbers was verified on concrete models; it also proved useful in engineering practice at the design stage immediately prior to modeling. The accuracy of the method is demonstrated by the determination of autopilot transfer numbers for the tilt-stabilization of a hypothetical aircraft with an autopilot delay time of 0.05 sec. [AD]

Card 2/2

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|
| MAY 15 1965 | | 1965-11-11 | |
| 11 AND 12 PAGES | | 11 PAGES | |
| SEARCHED AND SERIALIZED | | INDEXED AND FILED | |
| CA | | 19 | |
| <p>Flight against dust by manufacturers of glass fibers. V. A. Mal'kina, <i>Dokl. Akad. Nauk SSSR</i>, 18, No. 7, 22-4 (1947). --All operations with dry glass fibers must lead to much dust formation, i.e., the majority of small particles does not undergoing of the material becomes dust; however, a reduction of the material does not decrease considerably, but increases the percentage content of smaller particles. Minimizing beyond 20-30% by wt. is ineffective in further dust reduction.</p> <p style="text-align: right;">G. M. Krasnopol</p> | | | |
| <p>ABSTRACTS OF METALLURGICAL LITERATURE CLASSIFICATION</p> <p>SEARCHED AND SERIALIZED</p> <p>1965-11-11</p> | | | |
| <p>11 PAGES</p> | | | |

MATYTSKAYA, V. S. Doc Cand Med Sci -- (diss) " Hygienic evaluation of the labor conditions ^{during production} ~~in industry~~ and the use of insulation materials containing silicates (glass fiber and slag wool)." Len, 1957. 11 pp 20 cm. (State Order of Lenin Inst for Advanced Training of Personnel ^{of the Ministry of Health} and the Improvement of Profession of Medical Doctors im S.M. Kirov),

200 copies

(KL, 21-57, 106)

-110-

TUCHENKO, M.M., kand.med.nauk; SIDNIKOV, P.V., kand.tekhn.nauk; MATYTSKAYA, V.S.,
kand.med.nauk; KRYUKOV, Yu.S., vrach

Ways of improving working conditions during the manufacture of ship
structures of fiberglass. Sudostroenie 28 no.5:61-64 My '62.
(MIRA 15:7)

(Shipbuilding—Hygienic aspects) (Glass-reinforced plastics)

L 37226-66 ENT(1) JW/RD
ACC NR: AP6015395

SOURCE CODE: UR/0409/65/000/004/0531/0536

AUTHOR: Prostakov, N. S.; Mikheyeva, N. N.; Pkhali'gumani, D.; Mat'yu, K. D.

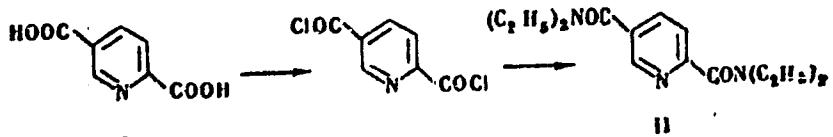
ORG: Peoples' Friendship University im. Patrice Lumumba, Moscow (Universitet druzhby narodov)

TITLE: Substituted pyridines. Amides and hydrazides of pyridinecarboxylic acids

SOURCE: Khimiya geterotsiklicheskikh soyedineniy, no. 4, 1965, 531-536

TOPIC TAGS: organic amide, hydrazine derivative, pyridine, aromatic carboxylic acid

ABSTRACT: Pyridinecarboxylic acids obtained from oxidation of dimethyl-substituted pyridines were used for synthesizing their amides and hydrazides, which are substances of pharmacological interest. The reactions are illustrated in the diagram:

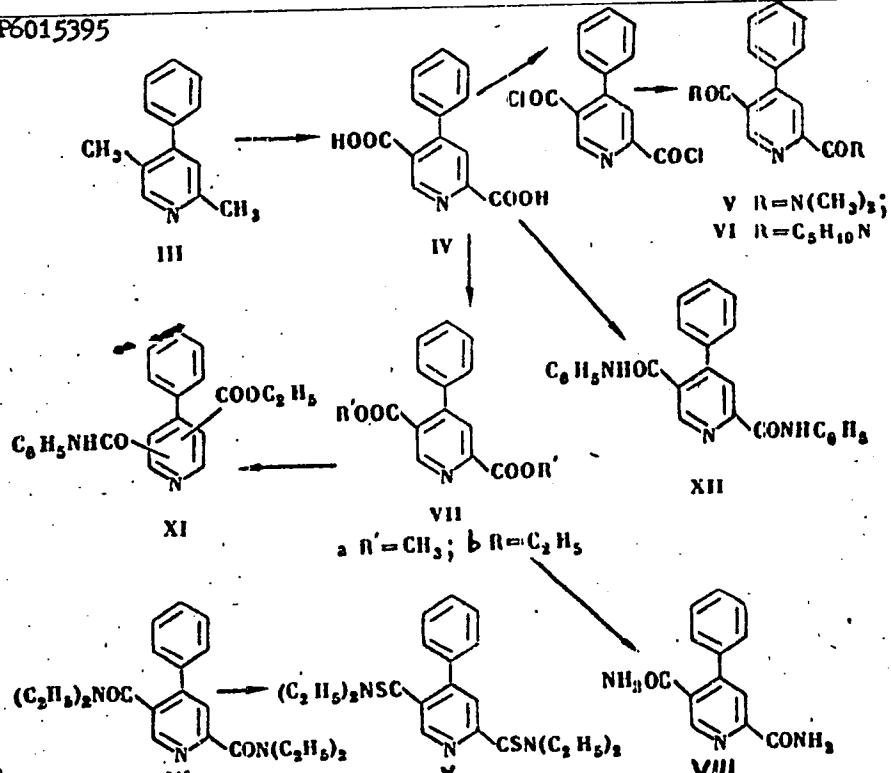


UDC: 547.826 + 542.95

Card 1/3

L 37226-66

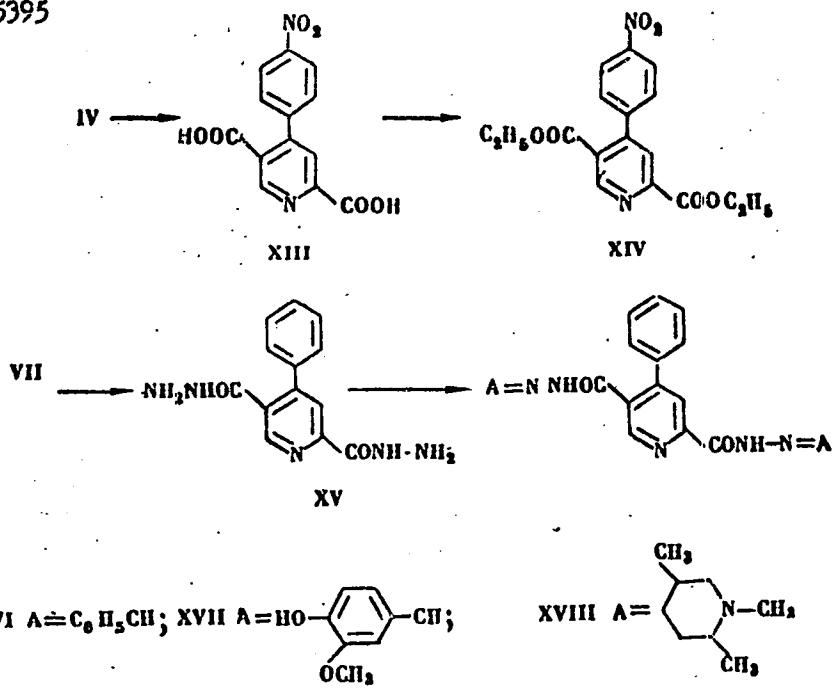
ACC NR: AF6015395



Card 2/3

L 37226-66

ACC NR: AP6015395



SUB CODE: 07 / SUBM DATE: 28 May 64 / ORIG REF: 001
 Card 3/3 07124

MATYGIN, Aleksandr Andreyevich; ASTAPOVICH, Z.A., otd. red.;
KIND, T.B., red. izd-va; VOLKOVA, V.G., tekhn. red.

[Soviet workers during the reconstruction of the national
economy, 1921-1925] Rabochii klass SSSR v gody vosstanovleniya
narodnogo khoziaistva, 1921-1925. Moskva, Izd-vo Akad. nauk
SSSR, 1962. 361 p.
(Labor and laboring classes)

GORLACH, I.A.; PRIVALOV, S.S.; MATYUGIN, A.S.; KVASOV, Ye.I.

Effect of heat treatment on the plasticity and magnetic properties
of an iron alloy with 16% aluminum. Metalloved. i term. obr. met.
no.11:8-10 N '63. (MIRA 16:11)

1. Ural'skiy nauchno-issledovatel'skiy institut chernoy
metallurgii.

22033

S/177/61/000/001/009/010
D211/D306

27.6330

AUTHOR: Matyugin, V.M., Captain of Medical Services

TITLE: An apparatus for studying the characteristics of attentiveness

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 1, 1961, 76 - 78

TEXT: The existing NIIIAM apparatus, used currently for studying attentiveness [Abstractor's note: No description of the apparatus is given] does not possess any automatic recording device. The author proposes a simple installation which he has successfully used since 1959. It consists of a telegraphic apparatus M-44, two lead electrodes - one 17 x 17 cm and the other 19 x 33 cm with a plate thickness of 0.6 cm, a needle-point connecting rod and two 6V accumulators; the speed of the telegraphic tape is 1.5 cm/sec. The plates are connected to the current source (as shown in Fig.1) and are covered with tables containing numerical or corrective

Card 1/3

An apparatus for studying ...
problems.

S/177/61²²⁰³³/000/001/009/010
D211/D306

Fig. 1.

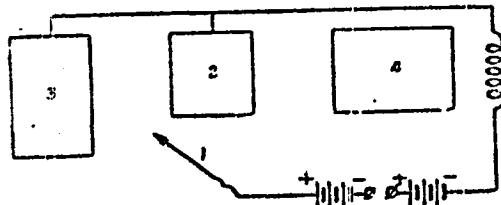


FIG. 1.

The airman being tested touches the chosen items with the pointed rod easily piercing the table and so closing the circuit. A sign is then automatically recorded on the telegraphic tape, the records obtained can be studied and all the time intervals needed for finding the correct items can be determined. As an illustration, a figure is given with 3 graphs, all made by the same subject, the

Card 2/3

22033

An apparatus for studying ...

S/177/61/000/001/009/010
D211/D306

problem being to find consecutive numbers. The first recording was made on February 24, 1960, when the subject was treated in hospital for neurosis; the second, on March 11, 1960, after few weeks treatment and the last on March 23, when he was already cured. The shape of the graphs vary from a very irregular one with long horizontal stretches during the first test to an almost smooth curve in the last one: The durations of the test were 70 secs, 55 secs, and 35 secs respectively. There are 3 figures. *X*

SUBMITTED: July, 1960

Card 3/3

MATYUGIN, V.M. (Polotsk)

Unusual case of influenza. Zdrav. Bel. 9 no.3:86-87 Mr. 163
(MIRA 16:12)

MATYUGINA - I. V.
Shelest, G. A.

105

PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.
Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Materials of the Third Ural Conference (Cont.) | SOV/6181 |
| Buravlev, Yu. M., M. A. Perepelkina, G. P. Neuymina, and G. I. Maramygina. Investigation of the effect of structure on the results of spectral analyses of cast iron | 62 |
| Bobrov, V. A., Ye. N. Chernoguz, and T. N. Yaroslavova. Application of "fractional exposure" method for spectral analysis of alloy cast irons and aluminum alloys | 66 |
| Matyugina, J. V. Spectral analysis of silicon brasses by the calculated graph method | 67 |
| Obukhova, Ye. S., and N. K. Rudnevskiy. Application of electrotransfer in plotting calibration graphs according to a single standard in the spectral analysis of alloys | 68 |
| Taganov, K. I. Spectroscopic investigation of features of contact-electrospark erosion of metals and alloys | 70 |

Card 6715

MATYUGINA, I.V.

Spectral analysis of transformer steel sheets. Zav.lab. 29 no.5:
557 '63. (MIRA 16:5)

1. Verkh-Isetskij metallurgicheskiy zavod.
(Sheet steel--Spectra)

MATYUGINA, O.M.

Rare anomaly of the inferior pulmonary veins. Grad.khir. 3
no.6:il2-113 N-D '61. (MIRA 15:3)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomi
Gor'kovskogo meditsinskogo instituta imeni S.M. Kirova (zav. -
prof. B.V. Parin).
(PULMONARY VEINS—ABNORMALITIES AND DEFORMITIES)

MATYUGINA, O.M.

Surgical anatomy of the oblique sinus of the pericardium.
Arkh. anat., fist. i embr. 49 no.9:45-51 S '65.

(MIRA 18:12)

I. Kafedra operativnoy khirurgii i topograficheskoy anatomiⁱ
(zav. - prof. B.V.Parin) Gor'kovskogo meditsinskogo instituta
imeni S.M.Kirova. Submitted December 8, 1964.

MATYUGINA, R.I. (Yelets)

Rules and problems on approximate computation in the sixth
grade. Mat. v shkole no.4:39-40 JylAg '61. (14:8)
(Approximate computation—Study and teaching)

PAVLOVSKIY, L.L.; MATYUK, F.M.; SIDORINA, N.I.

Optimum conditions for drying enamels by heat radiation.
Trakt. i sel'khozmash. 31 no.7:40-41 Jl '61. (MIRA 14:6)
(Enamel and enameling)

MATYUK, I.S.

Matyuk, I. S. - "The agrobiological features in the afforestation of the sand belts of the Southeast" Les Khoz-vo, 1948, No. 3, p. 11-14

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

MATYUK, I. S.

Cand. Agricultural Sci. Mbr., All-Union Sci. Res. Inst. Farm and Forest Amelioration, Moscow, -c1949-. "The Intra-Species Struggle and the Mutual Aid of Arboreal Species in Protective Timber Belts Planted on Sand," Agrobiol., 6, 1949; "The Effect of Soil Conditions on Pine Cultivation," Pochvoved., No. 1, 1949.

MATYUK, I. S.

Agriculture

Bracing and afforestation of sandy soil in the European part of the U.S.S.R.;
Moskva, Gos. izd-vo selkhoz lit-ry, 1951

9

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

MATYUK, I. S.

600

USSR (600)

Trees; Oak

"Interrelationship of Oak and Other Varieties Planted in the Sands
of Semi-Arid Land" Agrobiologiya, No 6, 1951

Kandidat sel'skokhozyaystvennykh nauk

S07 Monthly List of Russian Accessions, Library of Congress, May 1952, UNCL

1. MATYUK, I. S.
 2. USSR (660)
 4. Pine - White Russia
 7. Spot-seeding pine in White Russia. Agrobiologiya No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

MATYUK, I. S.

Afforestation - Terek-Kuma Desert

Afforestation of the sands of the Tersko-Kum wasteland, Bot. zhur. 38, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

MATYUK, I.S.

IVANOV, A.Ye.; MATYUK, I.S.; MIRONOV, V.V.; KOREISHO, Ye.G., redaktor
DANILOVA, T.P., tekhnicheskiy redaktor.

[Sandy soils and their utilization] Peski i ikh osvoenie. Moskva
Gos.izd-vo selkhoz. lit-ry, 1955, 254 p. [Microfilm] (MLRA 8:9)
(Sand) (Reclamation of land)

MATYUK, I.S.

Some types of sand from dunes along the Don River [with summary
in English]. Pochvovedenie no.8:127-133 Ag '58. (MIRA 11:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut agrolesomelioratsii.
(Don Valley--Sand)

MATYUK, I.S.

MATYAKIN, G.I.; NIKITIN, P.D.; KOZHENKO, A.S.; BRAUDE, I.D.; MIRONOV, V.V.;
MATYUK, I.S.; BEREZINA, V.M.; MININ, D.D.; ISHIN, D.P.; MOROZOV,
I.R.; GOLYATO, G.O.; CHASHKIN, M.I.; KORETSKO, Ye.G., red.; GUREVICH,
N.N., tekhn.red.

[Reference book for workers in the field of land improvement
through afforestation] Spravochnik agroleosomelioratora. Izd.3.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 308 p.

(MIRA 13:6)

(Afforestation)

MATYUK, I.S. (Moskva)

Some types of reed growths in the Volga Delta. Bot. zhur. 45 no.11:
1681-1687 N '60. (MIRA 13:11)
(Volga Delta—Reed (Botany))

MATTUK, I. S.

Valuable investigations in the current problems of soil science
and shelterbelt afforestation. Pochvovedenie no. 7:114-115
(MIRA 15:10)
J1 '62.

(Russia, Southern—Solonetz soils)
(Windbreaks, Shelterbelts, etc.)

MATYUK, I.S., kand. sel'skokhoz. nauk.

Planting in clusters in park forests. Agrobiologiya no.6:932-935
(MIRA 18:2)
N-D '64.

MATYUK, I.S.

(Moskva)

Types of reed (*Phragmites communis* Trin.) growths in the
Kuban Delta. Bot. zhur. 49 no.7s1013-1018 Jl '64
(MIRA 17t8)

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------|
| 1 00889-66 | EWT(1)/EWA(1)/EMT(n)/EPF(c)/EMP(1)/T/EWA(b)-2 | RC/RM |
| ACCESSION NR. AP5020087 | | UR/DO73/65/035/008/1495/1498 542.955.2 547. |
| AUTHOR: Shvetsova-Shilovskaya, K. D.; Matyuk, L. N.; Mel'nikov, N. N. | | 11/55 11/55 35 |
| TITLE: Organic insectofungicides. LXXXI. Interaction of trialkylthiophosphates with dialkylaminocarbamoylcarbamates | | |
| SOURCE: Zhurnal obshchey Khimii, v. 35, no. 8, 1965, 1496-1498 | | |
| TOPIC TAGS: fungicide, alkyl radical, hydrocarbon, carbamic acid, insecticide | | |
| ABSTRACT: Several O,O-dialkylthiophosphates of β -arylcaramine not previously reported in the literature were synthesized with the objective of examining their fungicidal action. Each compound was synthesized in the following manner: to 0.01 g-mole of carbamic acid ester dissolved in 5 ml of petroleum ether was added 0.01 g-mole of trialkylthiophosphate. The mixture was held for several days at 25°C. Then the solvent was distilled off and the residue was washed with boiling petroleum ether. The oily product was seasoned at 45-90°C at 0.1-0.5 mm Hg. The yields varied from 63 to 99%. The products corresponded to general formula | | |
| Card 1/2 | $[Ar]HC(O)CH_2CH_2N(R)_2]$ R ¹ | [A] ⁻ and [B] |

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 00869-66 | | | |
| ACCESSION NR: AP5D20087 | OCH ₃ | OC ₂ H ₅ | |
| where A and B are A = -O-P=S B = -O-R=S | OCH ₃ | OC ₂ H ₅ | |
| A' is meta-C ₁ C ₆ H ₄ , para-C ₁ C ₆ H ₄ , and C ₆ H ₅ CH ₃ and C ₂ H ₅ . For most of the compounds determined. Very good agreement was found chemical formulas (ultimate analysis) of individual elements calculated from the compounds were found to be weak fungicides. | R is C ₁ H ₅ , C ₄ H ₉ , C ₅ H ₁₁ , and C ₆ H ₁₃ ; R' is the effective ind ces and densities were between the exper imentally determined various compounds and the content of the chemical formula. Orig. art. has: | 5H ₁₁ , and C ₆ H ₁₃ ; R' is the effective ind ces and densities were between the exper imentally determined various compounds and the content of the chemical formula. Orig. art. has: | all the synthesized com pounds were found to be weak fungicides. |
| ASSOCIATION: none | | | SUB CODE: OC |
| SUBMITTED: 25Mar64 | ENCL: 00 | | |
| NO REF Sov: 004 | OTHER: 000 | | |
| Card 2/2 AD | | | |

ALEKSANDROV, N.I.; GEFEN, N.Ye.; YEROGOVA, N.B.; SERGEYEV, V.M.; MATYUK, P.D.;
SMIRNOV, M.S.

Aerosol immunization by means of dry pulverized vaccines and anatoxins.
Report No.2: Study on the effectiveness of the aerosol method of
immunization and reimmunisation by means of dry pulverized diphtherial
anatoxin. Zhur. mikrobiol. epid. i immun. 31 no.7:92-97 J1 '60.
(MIRA 13:9)

(DIPHTHERIA)

(TOXINS AND ANTITOXINS)

MATYUKAS, A.A. [Matiukas, A.]; ZHYUGZHDA, I.I. [Ziugzda, J.]; MAKARYAVICHYUS, V.I. [Makarevicius, V.]; ZHUKAUSKAS, A.A. [Zukauskas, A.]

Using semiconductor thermistors for measuring viscous fluid flow speed. Trudy AN Lit. SSR Ser. B no.3:87-90 '63.

(MIRA 18:3)

1. Institut energetiki i elektrotekhniki AN Litovskoy SSR.

SOV-2-58-7-5/14

AUTHORS: ya
Matyukha, I., Postnikov, S. and Samcylov, V.

TITLE: From the History of Family Budget Statistics of the Population of the USSR (Iz istorii statistiki byudzhetov naseleniya v SSSR)

PERIODICAL: Vestnik statistiki, 1958, Nr 7, pp 37 - 50

ABSTRACT: This is a detailed report on the development of statistical inquiries on family budgets. At present the budgets of 20.2 thousand typical workers families and 25.9 thousand kolkhoz families are questioned systematically every year on their economic situation, real income, etc. During the Soviet regime the following statisticians have carried out special statistical investigations on family budgets: Academician S.G. Strumilin, N.I. Dubinskaya, A.Ye. Lositskiy and others. There are 3 Soviet references.

Card 1/1

AUTHOR: Matyukha, I. Ya. SOV/2-58-10-14/15

TITLE: The New Demoscopic Investigation (Novoye vyborochnoye obследovaniye)

PERIODICAL: Vestnik statistiki, 1958, Nr 10, pp 75 - 76 (USSR)

ABSTRACT: During the current year a demoscopic investigation will be conducted in the USSR. More than 46,000 families will be interrogated by representatives of statistical organizations to establish their budgets and on which consumer goods their income is being spent.

Card 1/1

MATIUKHA, I.Ya.

Three questions to the head of the Department of Budget Statistics of
the Central Statistical Administration of the U.S.S.R.. Nauka i
shizn' 27 no.6:2-3 Je '60. (MIRA 13:7)
(Budget)

MATYUZHA, N.Y.

Ways of studying fundamentals of industrial production,
Politekh.obuch. no.11:13-16 N '58. (MIRA 11:12)
(Technical education)

MATYUKHEVICH, A.Ye.

Support stations on postal routes. Vest. sviazi 25 no.5:28 My
'65.
(MIRA 18:5)

1. Nachal'nik Altayskogo krayevogo upravleniya svyazi.

MATYUKHIN, A.

Use of elastic paper for separating rubber during its transportation.
Mor. flot 20 no.9: 12-13 S '60. (MIRA 13:9)

1. Kapitan teplokhoda "Il'ya Mechnikov." (Packing for shipment)
(Rubber--Transportation)

MATYUKHIN, A.; POGOREL'TSEVA, Z.; KIRILLOV, V.; SKOBKIN, S.; GALYUK, V.

A helping hand of friendship. Sov.profsoinzy 7 no.9;22-24 My
'61.

(MIRA 14:4)

1. Predsedatel' komiteta profsoyuza Khar'kovskogo traktornogo zavoda.
(for Matyukhin).
2. Predsedatel' mestnogo komiteta vtoroy Khar'kovskoy
bol'nitsy (for Pogorel'tseva).
3. Predsedatel' ob'yedinennogo komi-
teta profsoyuza Ordzhonikidzevskogo tresta stolovykh (for Kirillov).
4. Direktor Dvortsya kul'tury khar'kovskikh zheleznodorozhnikov (for
Skobkin).
5. Predsedatel' rabochkoma sovkoza "Borki" (for Galyuk).
(Kharkov Province—Trade unions)
(Kharkov Province—Agriculture)

BUDCHER, A.Z.; MATYUKHIN, A.F.; STOLOVITSKIY, B.M.

Reservoir rocks of the Albion gas-bearing horizon in the Yeisk-Berezan' region of the Scythian Platform. Trudy KF VNII no.6:260-276 '61.
(MIRA 15:2)

(Krasnodar Territory--Gas, Natural--Geology)

KOTSERUBA, V.V.; MATYUKHIN, A.F.

Formation of oil and gas accumulations in diapirs in the area of
the Sea of Azov. Geol. nefti i gaza 9 no.1:49-54 Ap 1965.
(MERA 18:8)

I. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskochnyy
neftyanyy institut, Moskva, & Krasnodarskiy filial Vsesoyuznogo
neftogazovogo nauchno-issledovatel'skogo instituta.

MATYUKHIN, Anatoliy Nikolayevich; TABUNINA, M.A., red.

[Safety manual for packers of steel wool products at enterprises producing insulating materials] Pamiatka po tekhnike bezopasnosti dlia upakovshchikov mineralovatnykh izdelii na predpriatiakh teploizoliatsionnykh materialov. Moskva, Stroizdat, 1965. 18 p.
(MIRA 18:4)

MATYUKHIN, Anatoliy Nikolayevich; TABUNINA, M.A., red.

[Safety manual for cupola furnace operators at enterprises manufacturing mineral wool] Pamiatka po tekhnike bezopasnosti dlia vagranshchika na predpriatiakh po proizvodstvu mineral'noi vaty. Moskva, Stroizdat, 1965.
17 p. (MIRA 18:5)

MATYUKHIN, Anatoliy Nikolayevich

[Safety manual for operators of blowers of mineral wool insulation] Pamiatka po tekhnike bezopasnosti dlia operatora uzla razduva rasplava mineral'noi vaty. Moskva, Stroizdat, 1965. 15 p.

(MIRA 18:5)

MATYUKHIN, Anatoliy Nikolayevich

[Safety manual for workers engaged in heat-insulation opera-
tions] Pamiatka po tekhnike bezopasnosti dlia rabochikh pri
proizvodstve teploizoliatsionnykh rabot. Moskva, Stroiiz-
dat, 1965. 31 p. (MIRA 18:4)

MATYUKHIN, G.

Disinfection of Water With Bactericidal Rays

Description and Schematic diagram of a bactericidal apparatus consisting of tubes of Type EUV-15 or EUV-30-P, or mercury-quartz tubes of Type PRK-7. (Svetotekhnika, No. 5, 1955) Tyul i Snabzheniya Sovetskoy Armii, No. 7, 1955.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

MATYUKHIN, G.S., inshener.

New use for cellulose wool. Bum.prom. 29 no.3:17 Mr-Ap '54.
(MLRA 7:6)

(Filters and filtration)

KAPELINSKIY, Yu.N.; POLYANIN, D.V.; ZOTOV, G.M.; IVANOV, I.D.; SERGEYEV,
Yu.A.; MENZHINSKIY, Ye.A.; KOSTYUKHIN, D.I.; DUDUKIN, A.N.;
IVANOV, A.S.; FINOGENOV, V.P.; ZAKHMATOV, M.I.; SLODKIN, R.G.;
DUSHEN'KIN, V.N.; BOGDANOV, O.S.; SERGVA, L.V.; GONCHAROV, A.N.;
LYUBSKIY, M.S.; PUCHIK, Ye.P. [deceased]; KAMENSKIY, N.N.;
SABEL'NIKOV, I.V.; GERCHIKOVA, I.N.; FEDOROV, B.A.; KARAVAYEV,
A.P.; KARPOV, L.N.; VARTUMYAN, E.L.; SHIPOV, Yu.P.; ROGOV, V.V.;
BOGDANOV, I.I.; VLADIMIRSKIY, L.A.; LEBEDEV, B.I.; ANAN'YEV, P.G.;
TRINICH, F.A.; GOLOVIN, Yu.N.; MATYUKHIN, I.S.; SEYFUL'MULYUKOV,
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"APPROVED FOR RELEASE: 06/14/2000

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MATYUKHIN, N.YA.

SUBJECT: USSR/New Electron Computers Developed at Lower Cost

AUTHOR: Kartsev, M.A. and Matyukhin, N.Ya., Engineers 25-4-17/34

TITLE: Computers (Vychislitel'nyye Mashiny)

PERIODICAL: Nauka i Zhizn' - April 1957, # 4, pp 44-45 (USSR)

ABSTRACT: In this article two newly developed types of electronic computers are described. M-2 performs about 2,000 arithmetical operations per second, but is much cheaper and simpler to operate than the "Strela", an earlier constructed computer of equal efficiency. In the M-2 for the first time semiconductors and cathode ray tubes, which are cheap and easily obtainable were used.

Another computer, the M-3, is much smaller, requiring only 3 sq m of space. It has only 780 tubes, 3,000 semiconductor appliances and needs no long adjustment. It can perform thirty operations per second, but can easily be extended by additional cabinets, which are able to multiply its efficiency.

The article contains two illustrations of the M-2 and M-3 computers respectively.

Card 1/2

TITLE: Computers (Vychislitel'nyye Mashiny) 25-4-17/34

ASSOCIATION: Laboratoria upravlyayushchikh mashin i sistem an SSSR
(Laboratory for Control Machines and Systems of the Academy
of Sciences of the USSR)

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